GENERAL NOTES:

- 1. THIS PRODUCT HAS BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S). 2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
- 3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
- THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH 2018 IBC REFERENCED STANDARDS ASTM E330, E283 E331, F588, E1886 & E1996 FOR LARGE MISSILE IMPACT PRODUCTS. ALL TESTING OF THIS PRODUCT TO STANDARDS LESS CURRENT THAN THOSE SPECIFIED IN THE 2018 IBC HAS BEEN DETERMINED EQUIVALENT TO THE MORE CURRENT VERSIONS OF THOSE STANDARDS REFERENCED IN THE 2018 IBC.
- 5. THIS PRODUCT HAS BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE (IBC).
- IMPACT SHUTTERS ARE NOT REQUIRED WITH THIS PRODUCT.
- ALL ANCHORS SECURING PRODUCT FRAMES TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
- 8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, A DIRECTIONALITY FACTOR OF KD = 0.85 MAY BE APPLIED PER THE ASCF-7 STANDARD
- 9. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL BE SEPARATED OR COATED AS REQUIRED TO AVOID CORROSION OF EITHER MATERIAL.
- 10. TO THE BEST OF OUR KNOWLEDGE, THE PRODUCT SHOWN HEREIN ARE QUALITY ASSURED BY AN APPROVED CERTIFICATION/QA ENTITY & SHALL BE LABELED IN ACCORDANCE WITH APPLICABLE STANDARDS. THESE DRAWINGS SHOW ALL APPLICABLE ELEVATION, COMBINATION, INSTALLATION & COMPARATIVE ANALYSIS CONDITIONS AS DETERMINED THROUGH TESTING & ENGINEERING RATIONAL ANALYSIS. PRODUCT ASSEMBLY SHALL BE IN ACCORDANCE WITH THESE DRAWINGS, THE MANUFACTURER'S QUALITY ASSURANCE SPECIFICATIONS & TESTING REPORTS.
- 11. CERTIFICATION OF THIS PRODUCT SHALL BE CONSIDERED VOID IF THEY ARE INSTALLED WITHOUT A BUILDING PERMIT FROM THE APPLICABLE LOCAL BUILDING DEPARTMENT OR IF THEY ARE INSTALLED BY ANYONE OTHER THAN A LICENSED CONTRACTOR EXPERIENCED WITH INSTALLATIONS OF THIS TYPE OF PRODUCT.

EVALUATION OF THIS PRODUCT IS BASED ON APPLICABLE STANDARDS AND/OR INFORMATION & RESULTS FROM APPLICABLE TEST REPORTS. THE BUILDING CODE VERSION CONSIDERED WITH THIS EVALUATION WAS THAT IN FORCE AT THE TIME OF THE EVALUATION. IN THE EVENT OF CODE VERSION CHANGES/UPDATES OR IN THE EVENT THAT NEW OR ADDITIONAL TESTING IS COMPLETED ON THIS PRODUCT, PRIOR TO STATING CODE COMPLIANCE, THE MANUFACTURER SHALL CONFIRM WITH THE EVALUATION ENGINEER OF RECORD THAT EVERYTHING SPECIFIED HERE-IN IS CURRENT WITH ALL CURRENT TESTING, CODES AND APPLICABLE STANDARDS.

1	LE D.L.O. TABLE
MAXIMUM	MAXIMUM
D.L.O.	D.L.O.
HEIGHT	WIDTH
(IN.)	(IN.)
115 1/4	43 3/4
108	46 1/2
102	49 1/4
96	52 1/2
92 3/4	54 1/4
90	56
84	60

CORNER CONSTRUCTION:

FRAME CORNERS & VERTICAL INTERMEDIATE CORNERS: HORIZONTAL MEMBERS ARE SQUARE CUT, BUTTED TO THE VERTICAL MEMBER, FASTENED WITH 3 TO 4 S.S. NO. 12 X 1" PHTFS FASTENERS THROUGH THE VERTICAL MEMBERS INTO THE HORIZONTAL MEMBER SCREW SPLINES & SEALED WITH SILICONE. PROJECT-OUT FRAME CORNERS: MITERED, JOINED TOGETHER VIA A CORNER KEY (ITEM #24) & SEALED WITH SILICONE SEALANT.

PROJECT-OUT SASH CORNERS: MITERED, JOINED TOGETHER VIA A CORNER KEY (ITEM #25) & SEALED WITH SILICONE SEALANT.

FRAME ANCHOR REQUIREMENTS TABLE				
OPENING TYPE (SUBSTRATE)	FRAME/FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.	
FRAME & STRAP ANCHOR SCREWS				
(1) MIN. 2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 14 SMS OR WOOD SCREW	1 3/8"	1"	
MIN. 16 GA. 50 KSI METAL STUD	1/4" SELF TAP/DRILL SCREW	FULL	1/2"	
MIN. 1/8" THK A36 STEEL	1/4" SELF TAP/DRILL SCREW	FULL	1/2"	
MIN. 0.100" THK 6063-T6 ALUM.	1/4" SELF TAP/DRILL SCREW	FULL	1/2"	
(2) CONCRETE FILLED CMU	(3) 1/4" CONCRETE SCREW	1 3/4"	2 1/2"	
3000 PSI CONCRETE	(3) 1/4" CONCRETE SCREW	1 3/4"	2 1/2"	
(1) FRAME SCREW MOUNT REQUIRES MIN	2X4: STRAP ANCHOR MOUNT REQUIRES	MIN 2X6		

- (2) WHEN SUBSTRATE IS WOOD & FRAME SCREWS ARE REQUIRED AT SIDES OF OPENING, THE SHIM SPACE AT THE SIDES SHALL NOT BE GREATER THAN 1/4" UNLESS THE SCREWS ARE GRADE 5 (MAY BE UP TO 3/8" WITH GR. 5 SCREWS)
- (3) CMU IS APPLICABLE AT SIDES ONLY & MUST BE CONCRETE FILLED WHEN SIDE JAMB ANCHORS ARE REQUIRED.
- (4) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).

ALLOWAB	LE D.L.O.
SIZE	TABLE
MAXIMUM	MAXIMUM
D.L.O.	D.L.O.
HEIGHT	WIDTH
(IN.)	(IN.)
115 1/4	43 3/4
108	46 1/2
102	49 1/4
96	52 1/2
92 3/4	54 1/4
90	56
84	60

IVIOLLION)				
MAXIMUM FRAME HEIGHT	MAXIMUM LOAD WIDTH	ALLOWABLE PRESSURE (PSF)		
DIMENSION (IN.)	DIMENSION (IN.)	6 ANCHORS	4 ANCHORS	
	62 3/4	56.6	36.5	
	56 3/4	62.6	40.4	
121 1/4	50 3/4	70.0	45.2	
121 1/4	44 3/4	70.0	51.2	
	38 3/4	70.0	59.2	
	32 3/4	70.0	70.0	
	62 3/4	62.8	40.6	
	56 3/4	69.5	44.8	
109 1/4	50 3/4	70.0	50.1	
109 1/4	44 3/4	70.0	56.9	
	38 3/4	70.0	65.7	
	35 3/4	70.0	70.0	
	62 3/4	70.0	45.6	
	56 3/4	70.0	50.4	
97 1/4	50 3/4	70.0	56.3	
	44 3/4	70.0	63.9	
	40 3/4	70.0	70.0	
	62 3/4	70.0	49.2	
90	56 3/4	70.0	54.4	
90	50 3/4	70.0	60.9	
	44 3/4	70.0	69.0	
	62 3/4	70.0	52.7	
84	56 3/4	70.0	58.3	
04	50 3/4	70.0	65.2	
	46 3/4	70.0	70.0	
	62 3/4	70.0	56.8	
78	56 3/4	70.0	62.8	
	50 3/4	70.0	70.0	
70	62 3/4	70.0	61.5	
72	56 3/4	70.0	68.0	
	54 3/4	70.0	70.0	
66	62 3/4	70.0	67.1	
. 66	59 3/4	70.0	70.0	
65	62 3/4	70.0	70.0	
1. DIMENSIONS SHOWN ARE $+/-1/4$ ".				

MULLION PRESSURE TABLE

(VERTICAL INTERMEDIATE

MULLION)

	MULLI	ON PRES (5" SIDE		ABLE
	MAXIMUM FRAME	MAXIMUM LOAD	ALĹOV	VABLE RE (PSF)
	HEIGHT DIMENSION (IN.)	WIDTH DIMENSION (IN.)	3 ANCHORS PER END	2 ANCHORS PER END
		35	58.0	38.5
1		32	63.4	42.1
1		29	70.0	46.5
1	121 1/4	26	70.0	51.8
1	•	23	70.0	58.6
1		20	70.0	67.4
1		17	70.0	70.0
1		35	. 64.4	42.7
1		32	70.0	46.7
1	100 1/4	29	70.0	51.6
1	109 1/4	26	70.0	57.5
		23	70.0	65.0
1		20	70.0	70.0
11		35	70.0	48.0
11		32	70.0	52.5
1	97 1/4	29	70.0	57.9
11		26	70.0	64.6
1		23	70.0	70.0
11		35	70.0	51.9
11		32	70.0	56.7
11	90	29	70.0	62.6
		26	70.0	69.8
11		25	70.0	70.0
		35	70.0	55.6
11	84	32	70.0	60.8
$\ \ $	0+	29	70.0	67.1
		27	70.0	70.0
$\ $		35	70.0	59.8
	78	32	70.0	65.4
		29	70.0	70.0
	72	35	70.0	64.8
		32	70.0	70.0
	66	35	70.0	70.0
1. DIMENSIONS SHOWN ARE +/-1/4".				

	(2	3/4" SI	DE JAME		
	MAXIMUM	MAXIMUM		WABLE	
	FRAME HEIGHT	LOAD WIDTH	ļ	RE (PSF)	
RS	DIMENSION	DIMENSION	3 ANCHORS	2 ANCHORS	
ND	(IN.)	(IN.)	PER END	PER END	
$\ddot{\dashv}$	` '				
-	!	32 3/4	70.0	46.5	
		29 3/4	70.0	51.1	
\dashv	90	26 3/4	70.0	56.9	
\dashv		23 3/4	70.0	64.1	
		20 3/4	70.0	70.0	
\Box		32 3/4	70.0	49.8	
		29 3/4	70.0	54.8	
	. 84	26 3/4	. 70.0	60.9	
		23 3/4	70.0	68.6	
		22 3/4	70.0	70.0	
		32 3/4	70.0	53.6	
	78	29 3/4	70.0	59.0	
	/0	26 3/4	70.0	65.6	
		23 3/4	70.0	70.0	
		32 3/4	70.0	58.1	
	72	29 3/4	70.0	63.9	
		26 3/4	70.0	70.0	
		32 3/4	70.0	63.4	
	66	29 3/4	70.0	69.7	
		28 3/4	70.0	70.0	
	60	32 3/4	70.0	69.7	
	60	31 3/4	70.0	70.0	
	1. DIMENSION		ARE +/-	1/4".	
		HEIGHTS CO	NSIDERED	ARE FOR	

MULLION PRESSURE TABLE

10 7 /4" CIDE IMMO)

SINGLE SPAN JAMBS ONLY. WHEN JAMB HAS MID-SPAN ANCHORS & IS SPLIT INTO 2 SPANS, THIS TABLE DOES NOT APPLY, ALLOWABLE PRESSURE ON THE 2-SPAN JAMB IS $+/-70^{\circ}$ PSF FOR ALL UNIT SIZE CONDITIONS & ONLY 2 ANCHORS ARE REQUIRED AT JAMB ENDS.

CONSULTANTS

W. W. SCHAEFER ENGINEERING &
CONSULTING, P.A. (REG. NO. F-14980)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424 2021 **=** 1758T SHEET NO.

OF

RAWN BY: W.W.S.

1=24

W.W.S.

02/10/21

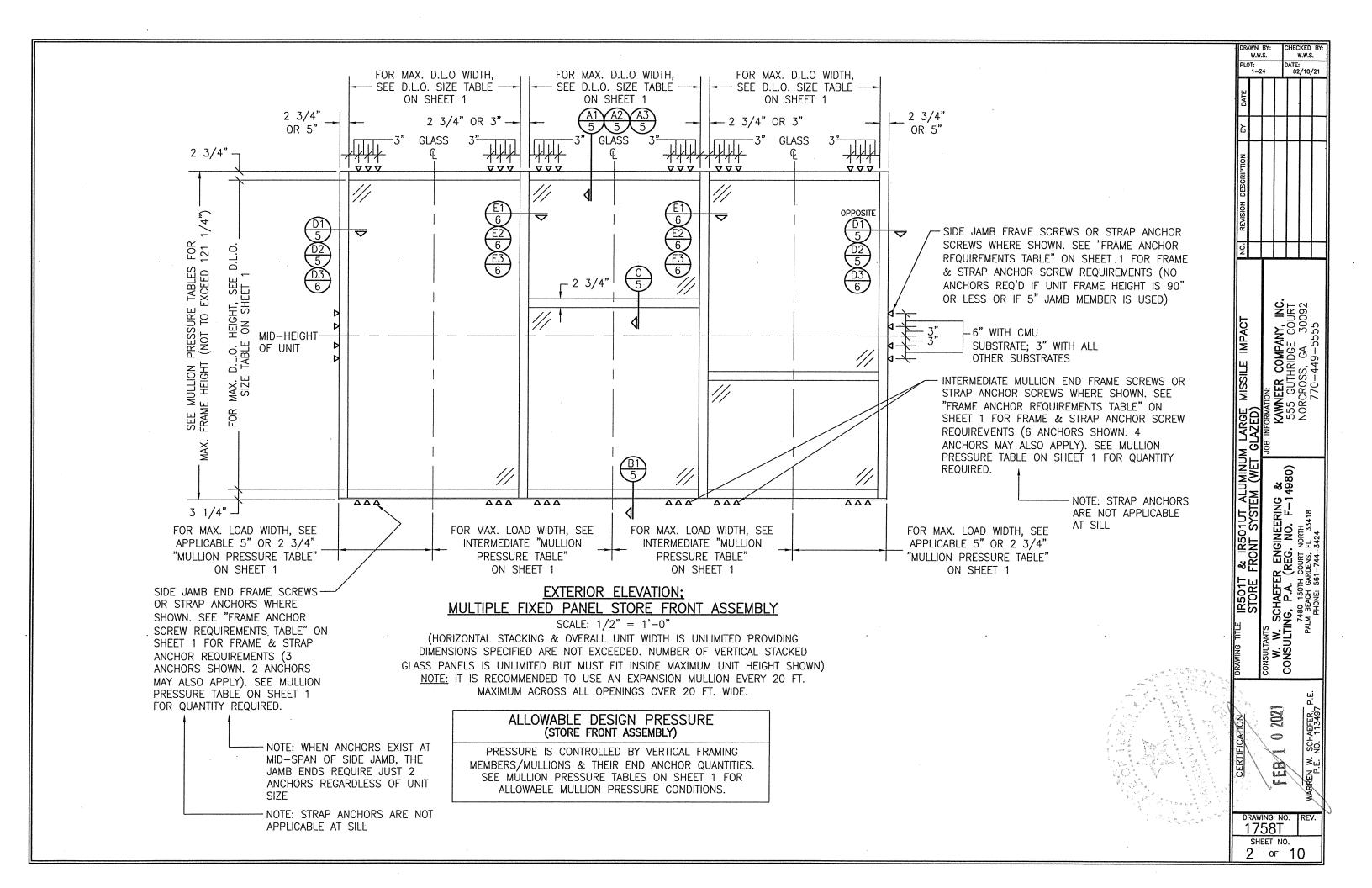
KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555

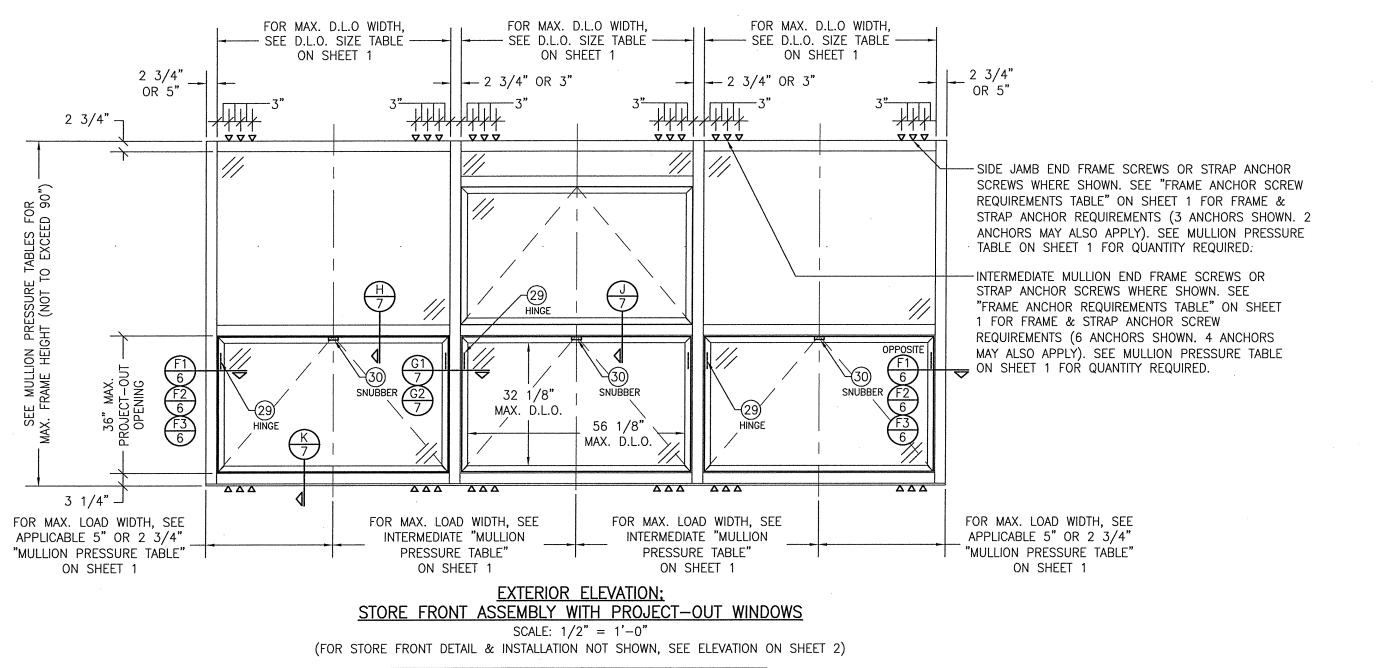
IMPACT

MISSILE

& IR501UT ALUMINUM FRONT SYSTEM (WET G

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUC SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURES



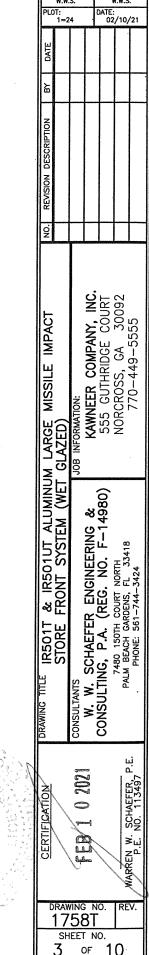


ALLOWABLE DESIGN PRESSURE (STORE FRONT ASSEMBLY WITH PROJECT-OUT WINDOWS)

PRESSURE IS CONTROLLED BY VERTICAL FRAMING MEMBERS/MULLIONS & THEIR END ANCHOR QUANTITIES. SEE MULLION PRESSURE TABLES ON SHEET 1 FOR ALLOWABLE MULLION PRESSURE CONDITIONS.

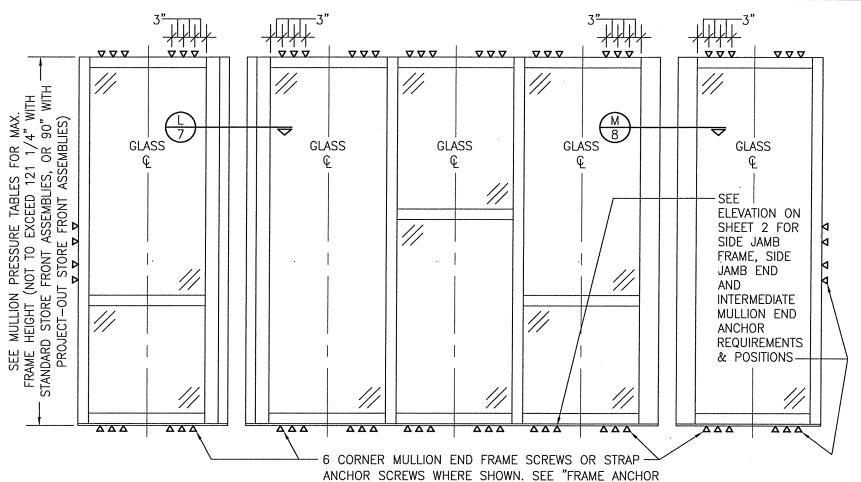
STORE FRONT ASSEMBLY WITH PROJECT-OUT WINDOW NOTES:

1. PROJECT-OUT WINDOWS MAY BE PLACED ANYWHERE WITHIN THE STORE FRONT FRAMING.
2. THERE IS NO LIMIT ON THE NUMBER OF PROJECT-OUT WINDOWS THAT MAY BE PLACED IN ANY ONE BAY OF THE STORE FRONT SYSTEM. NOTE: IT IS RECOMMENDED TO USE AN EXPANSION MULLION EVERY 20 FT. MAXIMUM ACROSS ALL OPENINGS OVER 20 FT. WIDE.
3. WHEN PROJECT-OUT WINDOWS EXIST, OVERALL FRAME HEIGHT SHALL BE LIMITED AS SHOWN. POTENTIAL INCREASED HEIGHTS SHALL BE REVIEWED & APPROVED BASED ON SEPARATE CERTIFICATION FOR ONE-TIME JOB APPROVAL IF NECESSARY.



CORNER MULLION PRESSURE TABLE (135 DEG. CORNER)			
MAXIMUM FRAME HEIGHT DIMENSION (IN.)	MAXIMUM LOAD WIDTH "A" OR "B" (IN.)	ALLOWABLE PRESSURE (PSF)	
***************************************	33.5	38.7	
	30.5	42.5	
101 1/4	27.5	47.1	
121 1/4	24.5	52.9	
	21.5	60.2	
	18.5	70.0	
	33.5	47.6	
	30.5	52.3	
109 1/4	27.5	58.0	
	24.5	65.1	
	21.5	70.0	
	33.5	60.1	
97 1/4	30.5	66.0	
-	27.5	70.0	
90	33.5	70.0	

(1) DIMENSIONS SHOWN ARE +/-1/4". LOAD WIDTH DIMENSION TO BE CONSIDERED FOR USE WITH THIS LOAD TABLE SHALL BE THE GRATER VALUE OF "A" & "B".



EXTERIOR ELEVATION;

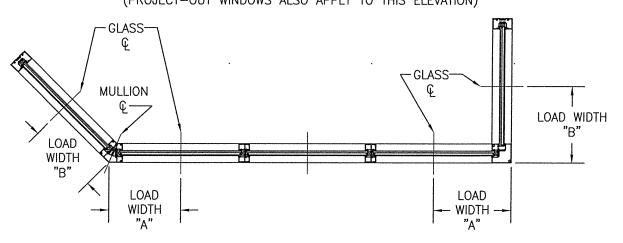
ANCHORS ARE NOT APPLICABLE AT SILL)

REQUIREMENTS TABLE" ON SHEET 1 FOR FRAME & STRAP ANCHOR SCREW REQUIREMENTS (STRAP

MULTIPLE FIXED PANEL STORE FRONT ASSEMBLY WITH 90° AND/OR 135° CORNERS

SCALE: 1/2" = 1'-0"

(FOR ALL DETAIL INSTALLATION & MULLION LOAD TABLES NOT SHOWN, SEE LOAD TABLES & ELEVATIONS ON SHEETS 1, 2 & 3) (WHILE SHOWN WITH BOTH 90' AND 135' CORNERS, ONE OR BOTH MAY APPLY ON ANY JOB) (PROJECT-OUT WINDOWS ALSO APPLY TO THIS ELEVATION)



	CORNER MULLION PRESSURE				WN W.W.		1	W.V	ED B' V.S.
	TABLE (90 DEG. CORNER)				PLOT: 1=24		DATE: 02/10/2		10/21
	MAXIMUM FRAME HEIGHT DIMENSION	MAXIMUM LOAD WIDTH "A" OR "B"	ALLOWABLE PRESSURE (PSF)	DATE					
	(IN.)	(IN.)		BY			-	1	_
-		35	40.0	ĕ			1	١	İ
		32	43.8	RIPT				l	
	121 1/4	29	48.3	DESCRIPTION				l	
	121 1/4	26	53.8	**			l		-
		23	60.9	REVISION			l		
		20	70.0	뀖		ı	1	-	
		35	49.3	Ŏ.	Н	十	\dagger	十	十
109 1/4		. 32	53.9			┸			
	29	59.5	$\ $						
	26	66.3							
		23	70.0			2	ے ذ	- 0	1
1		35	62.2	<u> </u>		_ ≤	<u> </u>	200	
	97 1/4	32	68.0	⊱	i	≥	<u> </u>	3 %	333
		29	70.0	II≌		٥	بر ؟	9 Q	, <u>1</u> 2
	90	35	70.0	 ш		VINADANIV	5 6	ے د	449-5555
	97 1/4 32 68.0 90 35 70.0 (1) DIMENSIONS SHOWN ARE +/-1/4". (2) LOAD WIDTH DIMENSION TO BE CONSIDERED FOR USE WITH THIS LOAD TABLE SHALL BE THE GRATER VALUE OF 10 1/4 32 68.0 (C) 1/4 32 68.0 (C) 29 20 20 20 20 20 20 20 20 20 20 20 20 20								

"A" & "B".

TEM (WET GLAZED)

TEM (WET GLAZED)

NG & KAM

NG & KAM

14980)

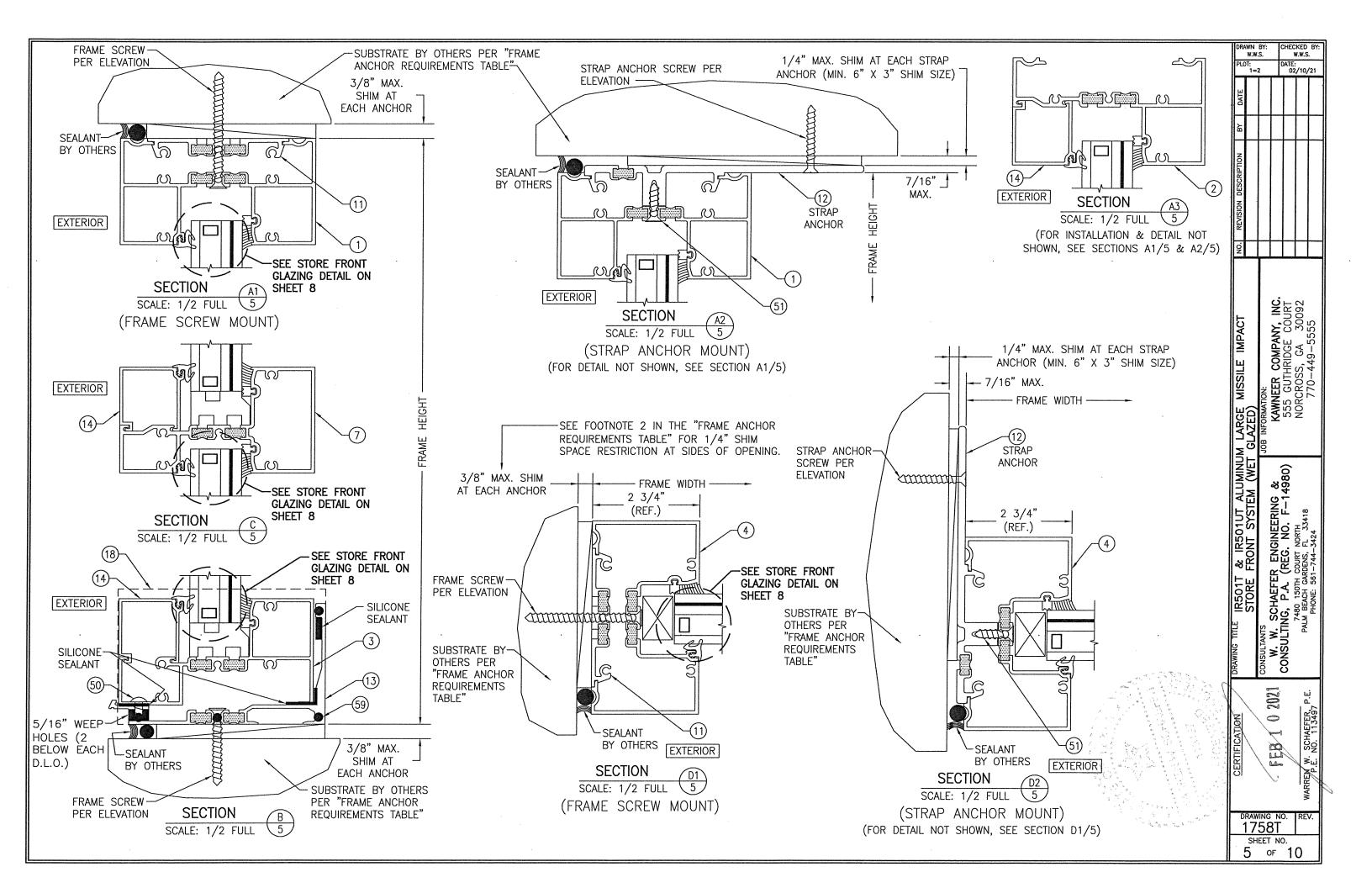
S5

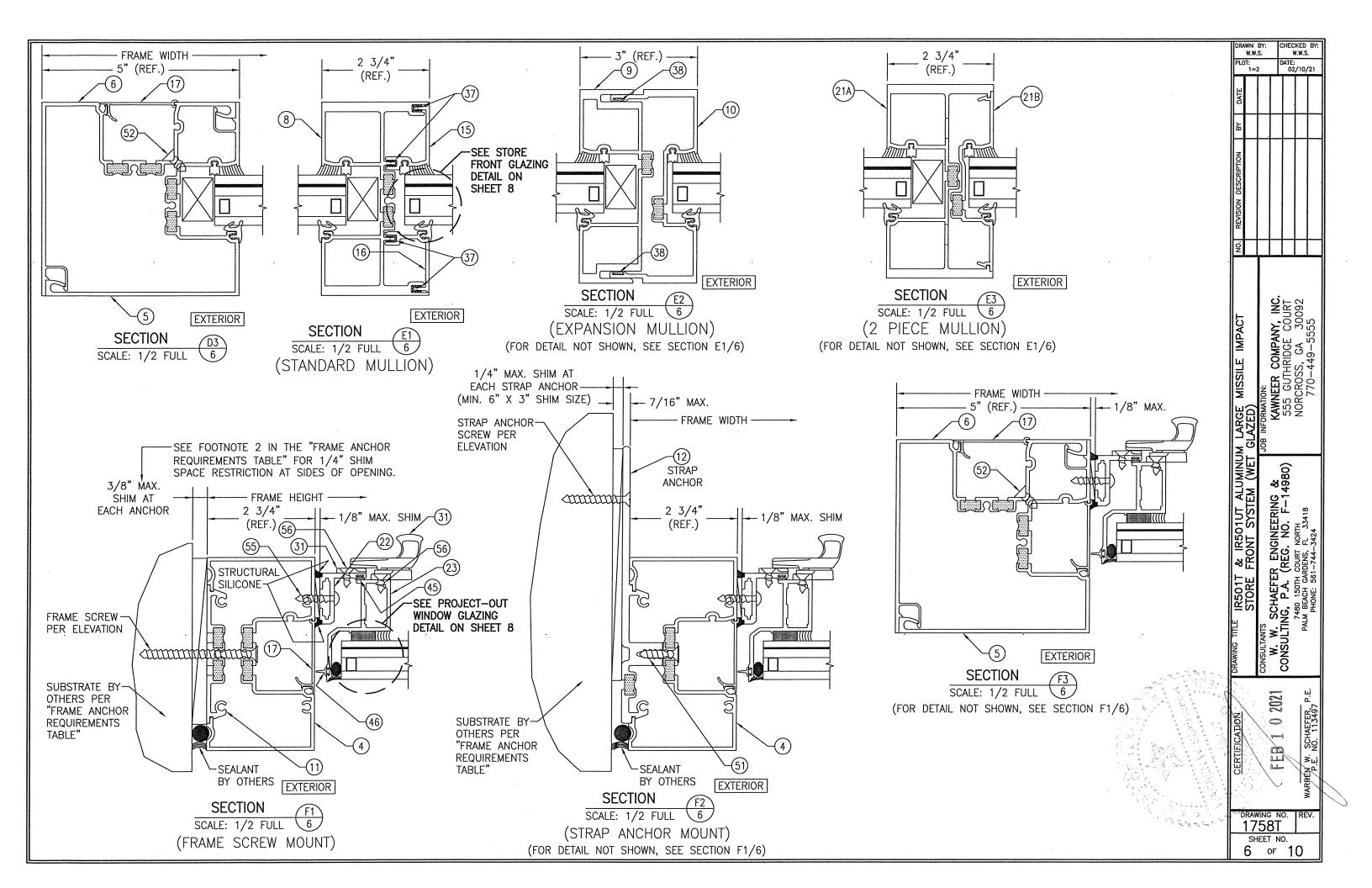
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (REG. NO. F-14980)

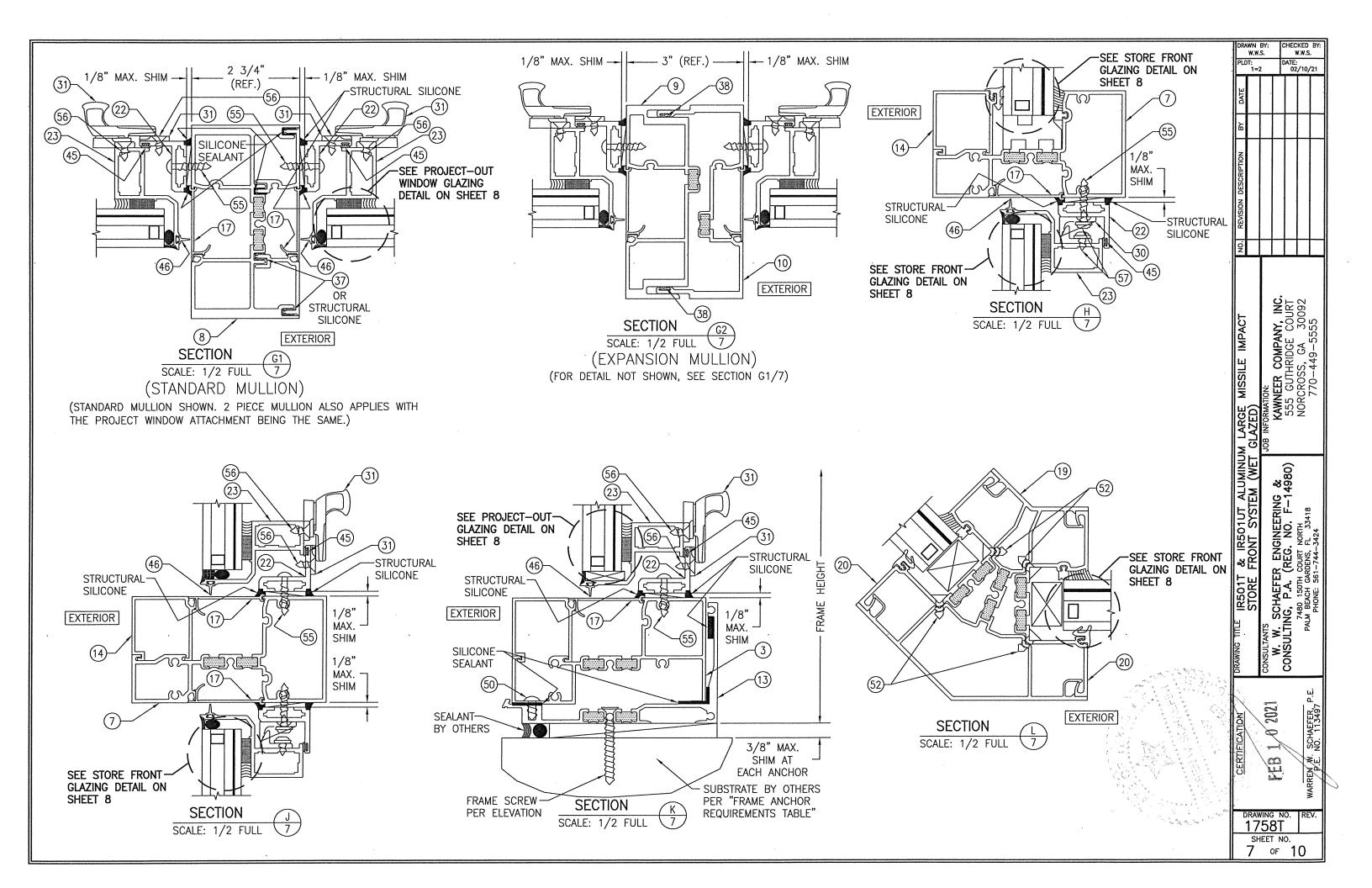
0 2021 F.B.

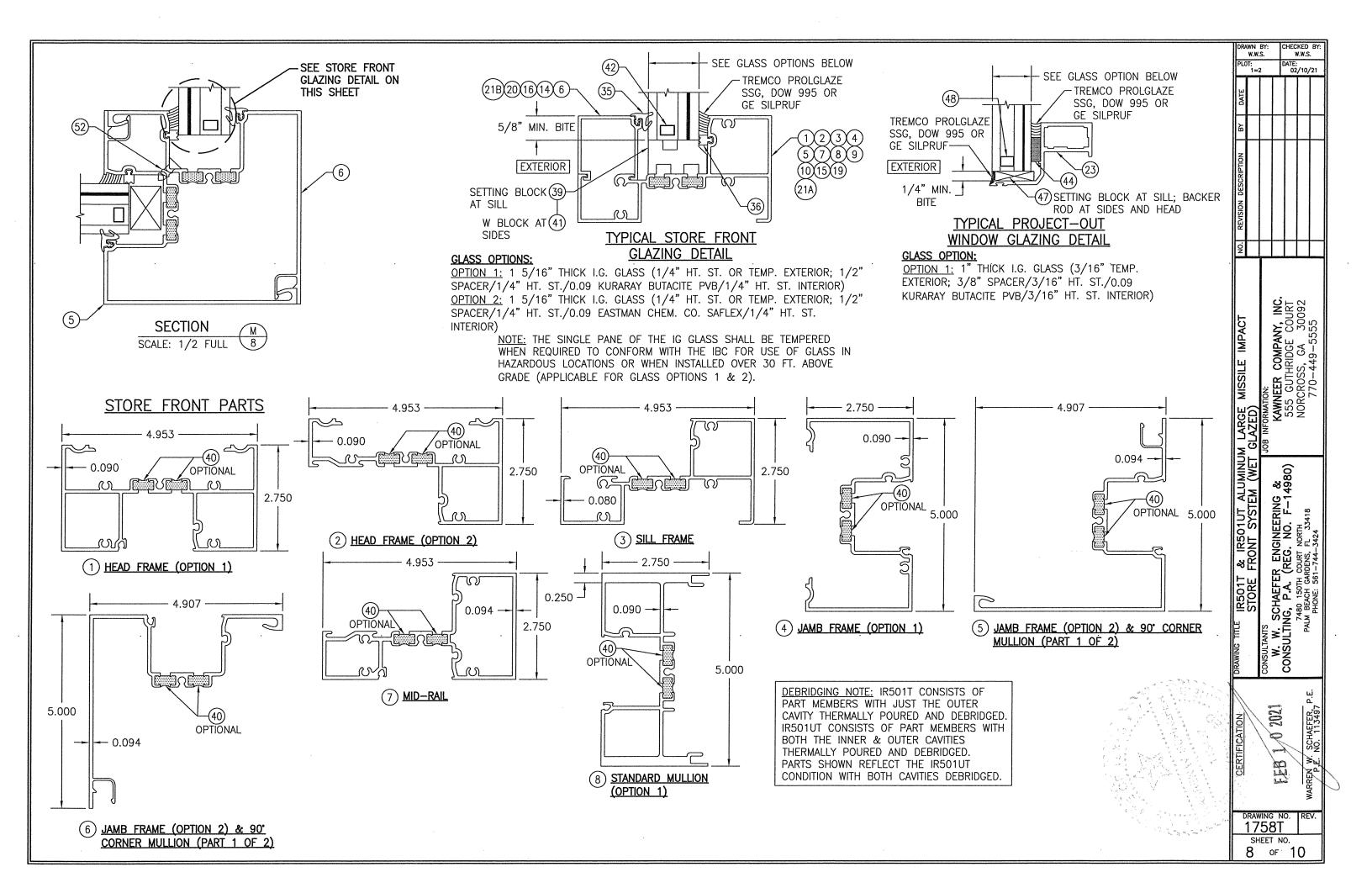
DRAWING NO. 1758T SHEET NO.

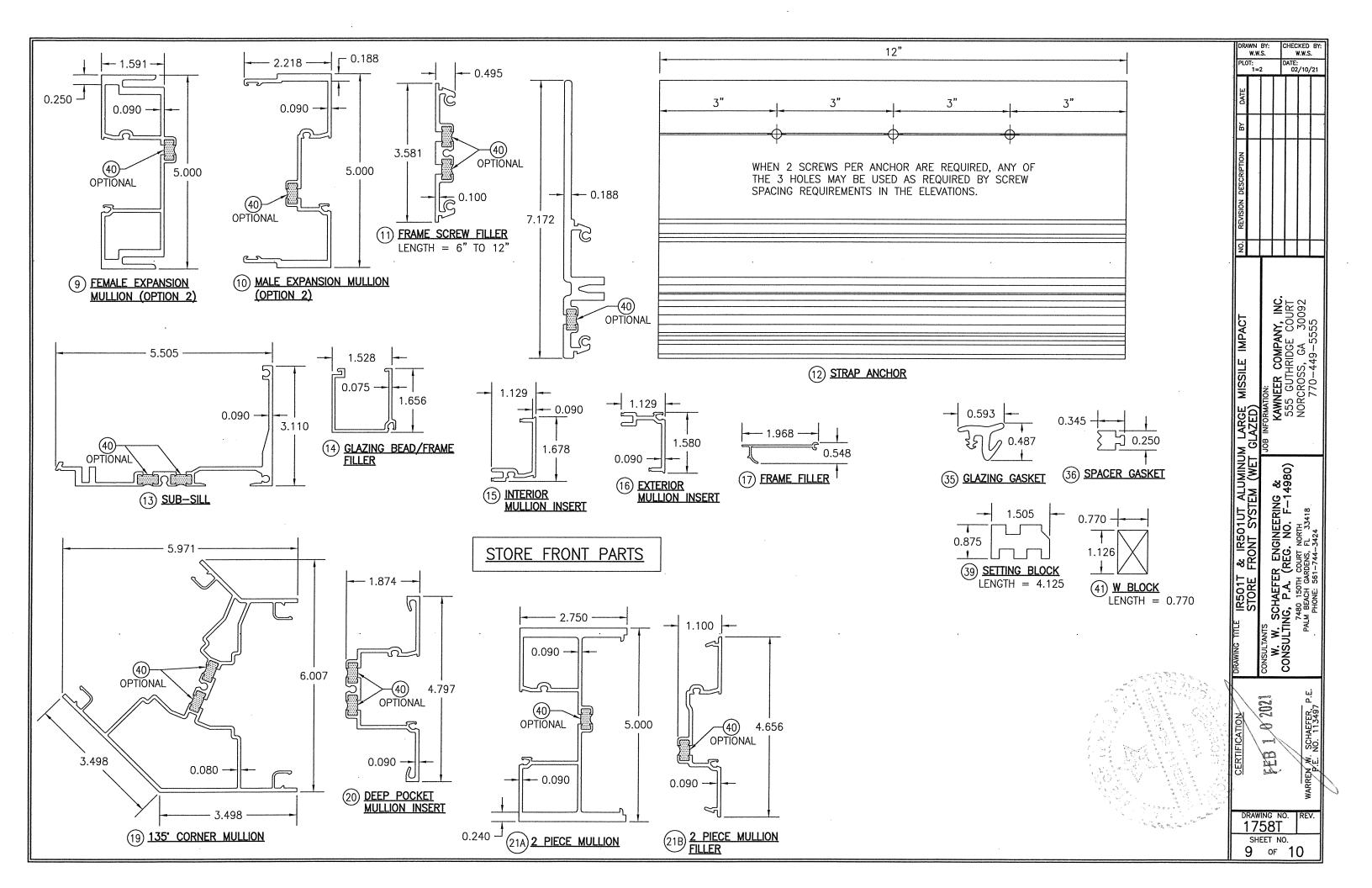
4 of 10











ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES		
STORE FRONT PARTS				
1	HEAD FRAME (OPTION 1)	6063-T6 ALUMINUM		
2	HEAD FRAME (OPTION 2)	6063-T6 ALUMINUM		
3	SILL FRAME	6063-T6 ALUMINUM		
4	JAMB FRAME (OPTION 1)	6063-T6 ALUMINUM		
5	JAMB FRAME (OPTION 2) & 90° CORNER	6063-T6 ALUMINUM		
	MULLION (PART 1 OF 2)			
6	JAMB FRAME (OPTION 2) & 90° CORNER	6063-T6 ALUMINUM		
	MULLION (PART 2 OF 2)	·		
7	MID-RAIL	6063-T6 ALUMINUM		
8	STANDARD MULLION (OPTION 1)	6063-T6 ALUMINUM		
9	FEMALE EXPANSION MULLION (OPTION 2)	6063-T6 ALUMINUM		
10	MALE EXPANSION MULLION (OPTION 2)	6063-T6 ALUMINUM		
11	FRAME SCREW. FILLER .	6063-T6 ALUMINUM		
12	STRAP ANCHOR	6063-T6 ALUMINUM		
13	SUB-SILL	6063-T6 ALUMINUM		
14	GLAZING BEAD/FRAME FILLER	6063-T6 ALUMINUM		
15	INTERIOR MULLION INSERT	6063-T6 ALUMINUM		
16	6 EXTERIOR MULLION INSERT 6063-T6 ALUMINUM			
17	POCKET FILLER ABS PLASTIC			
18	SILL END DAM PLATE (5.281"X3.5"X0.062" THICK)	PLASTIC		
19	135' CORNER MULLION	6063-T6 ALUMINUM		
20	DEEP POCKET MULLION INSERT	6063-T6 ALUMINUM		
21A	2 PIECE MULLION (KAWNEER #575-523)	6063-T6 ALUMINUM		
21B	2 PIECE MULLION FILLER (KAWNEER #575-524)	6063-T6 ALUMINUM		
	PROJECT-OUT GLASS VENT PA	ARTS		
22	FRAME	6063-T6 ALUMINUM		
23	STILE & RAIL	6063-T6 ALUMINUM		
24	FRAME CORNER KEY	6063-T6 ALUMINUM		
25	SASH CORNER KEY	6063-T6 ALUMINUM		
	PROJECT-OUT GLASS VENT HAR			
	4" BAR HINGE	ADVANTAGE 316-AT		
30	SNUBBER DRIVER & VENT DEFLECTION STOP	KENCO PLASTICS; NYLON WITH GLASS FILL		
31	CAM LOCK & LOCK STRIKE	BRONZE CRAFT US-25-D; WHITE BRONZE		
	3 REQ'D AT BOTTOM RAIL; 1 REQ'D EACH STILE			

0.492 - 0.011 1/2" I.G. GLASS SPACER	0.375 0.255 0.016 0.255 48 3/8" I.G. GLASS SPACER
	•

(42).

